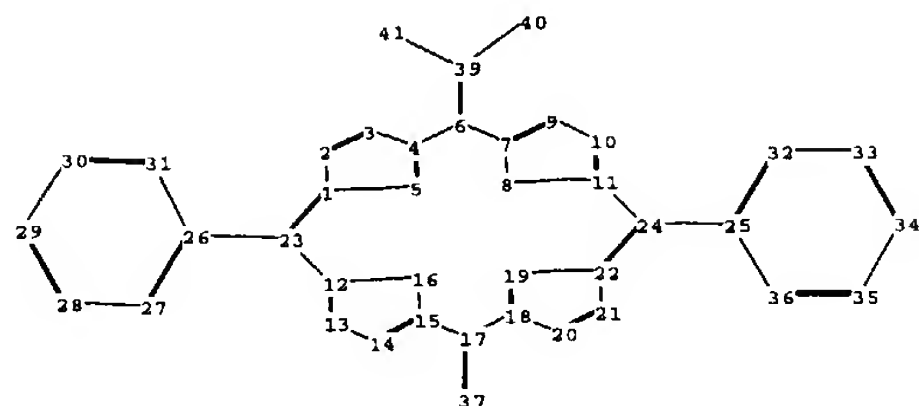
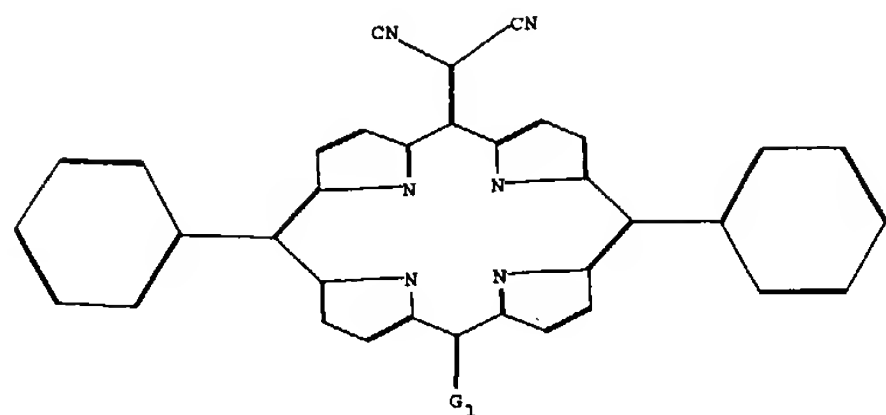


2



chain nodes :  
37 39 40 41  
ring nodes :  
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25  
26 27 28 29 30 31 32 33 34 35 36  
chain bonds :  
6-39 17-37 23-26 24-25 39-40 39-41  
ring bonds :  
1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-8 7-9 8-11 9-10 10-11 11-24 12-13 12-16  
12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22 20-21 21-22 22-24 25-32  
25-36 26-27 26-31 27-28 28-29 29-30 30-31 32-33 33-34 34-35 35-36  
exact/norm bonds :  
1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-8 7-9 8-11 9-10 10-11 11-24 12-13 12-16  
12-23 13-14 14-15 15-16 15-17 17-18 17-37 18-19 18-20 19-22 20-21 21-22 22-24  
exact bonds :  
6-39 23-26 24-25 39-40 39-41  
normalized bonds :  
25-32 25-36 26-27 26-31 27-28 28-29 29-30 30-31 32-33 33-34 34-35 35-36

G1:C,O

Match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom  
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom  
22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom  
32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom 39:CLASS 40:CLASS 41:CLASS

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 10:11:19 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 10 TO ITERATE

100.0% PROCESSED 10 ITERATIONS 1 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 11 TO 389  
PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 10:11:26 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 154 TO ITERATE

100.0% PROCESSED 154 ITERATIONS 7 ANSWERS  
SEARCH TIME: 00.00.01

L3 7 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	155.42	155.63

FILE 'CAPLUS' ENTERED AT 10:11:32 ON 31 MAR 2004  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 31 Mar 2004 VOL 140 ISS 14  
FILE LAST UPDATED: 30 Mar 2004 (20040330/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

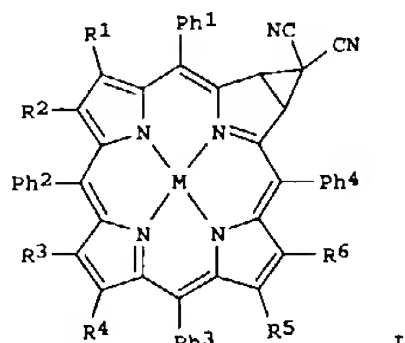
=> s l3

L4 3 L3

=> d ibib abs hitstr tot

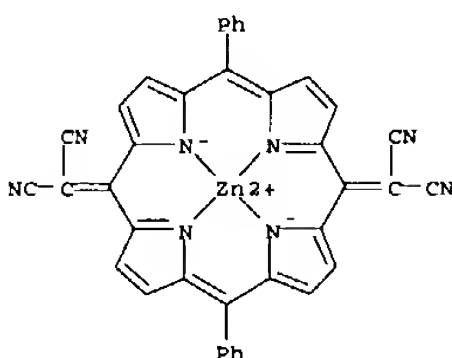
L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2000:742098 CAPLUS  
DOCUMENT NUMBER: 133:296323  
TITLE: Process for modifying polypyrrolic macrocycles via  
1,3-dipolar cycloadditions  
INVENTOR(S): MacAlpine, Jill; Dolphin, David; Sternberg, Ethan D.  
PATENT ASSIGNEE(S): THE University of British Columbia(UBC), Can.  
SOURCE: PCT Int. Appl., 41 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000061585	A2	20001019	WO 2000-IB615	20000414
WO 2000061585	A3	20010201		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6620929	B1	20030916	US 2000-551160	20000414
US 2004019201	A1	20040129	US 2003-622322	20030717
PRIORITY APPLN. INFO.: US 1999-129324P P 19990414 US 2000-551160 A1 20000414				
OTHER SOURCE(S): CASREACT 133:296323; MARPAT 133:296323				
GI				

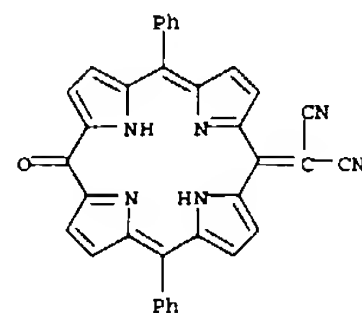


AB Methods of modifying polypyrrolic macrocycles by use of a 1,3-dipolar cycloaddn. to produce compds. for further derivatization to produce photosensitizing agents (I) [M = 2H, Ni(II), Cu(II), Zn, Sn, Ge, Si, Ga,

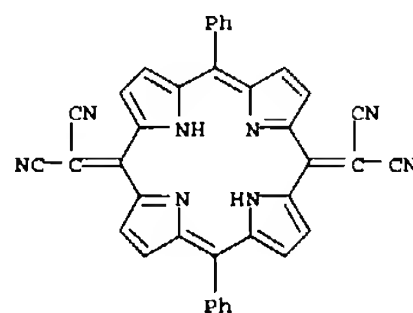
L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
«N21,«N22,«N23,«N24»bis[propanedinitrilato]](2-)]-  
, (SP-4-1) - (9CI) (CA INDEX NAME)



L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (continued)  
Al, Mn(III), Gd(III), In, Tc; R1-R6 = independently H, alkyl, alkylcarboxylic acid or ester, «O, OH, NO2, NH2; taken together with another ring, ring substituent or meso substituent = fused 5- or 6-membered ring; Ph1-Ph4 independently = H, (un)substituted alkyl, (un)substituted aryl, (un)substituted cycloalkyl, may be same or different] of interest is described.  
IT 301300-67-4P 301300-68-5P 301545-80-2P  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMP (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (process for modifying polypyrrolic macrocycles via 1,3-dipolar cycloaddns.)  
RN 301300-67-4 CAPLUS  
CN Propanedinitrile, (15-oxo-10,20-diphenyl-21H,23H-porphin-5(15H)-ylidene)-(9CI) (CA INDEX NAME)



RN 301300-68-5 CAPLUS  
CN Propanedinitrile, 2,2'-(10,20-diphenyl-21H,23H-porphine-5,15-diylidene)bis-(9CI) (CA INDEX NAME)



RN 301545-80-2 CAPLUS  
CN Zinc, [[2,2'-(10,20 diphenyl-21H,23H-porphine-5,15-diylidene)-

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2000:359162 CAPLUS  
DOCUMENT NUMBER: 133:83372  
TITLE: Synthesis and crystal structure of a cumulenyl quinoidal porphyrin dimer with strong electronic absorption in the infrared  
AUTHOR(S): Blake, Iain M.; Rees, Leigh H.; Claridge, Tim D. W.; Anderson, Harry L.  
CORPORATE SOURCE: Department of Chemistry, Dyson Perrins Laboratory, University of Oxford, Oxford, OX1 3QY, UK  
SOURCE: Angewandte Chemie, International Edition (2000), 39(10), 1818-1821  
CODEN: ACIEF5; ISSN: 1433-7851  
PUBLISHER: Wiley-VCH Verlag GmbH  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The cumulenyl porphyrin dimer I (R = 2,6-bis(tert-butyl)phenyl) was prepared in 34 % yield by Pd/Cu catalyzed Takahashi coupling of the dibromoporphyrin dimer II (R = 2,6-bis(tert-butyl)phenyl) with the malononitrile anion followed by oxidation with N-iodosuccinimide. It was also encouraging to attempt the preparation of a shorter quinoidal porphyrin IV (R = 2,6-bis(tert-butyl)phenyl) by first preparing the meso-meso linked dibromo dimer III (R = 2,6-bis(tert-butyl)phenyl). IV was prepared in

36 % yield. The electronic absorption of I and IV illustrate the amazing increase in conjugation accompanying quinoidalization. I·2C5H5N was characterized by single crystal x-ray diffraction anal. The compds. were all characterized by NMR and UV-visible spectra.

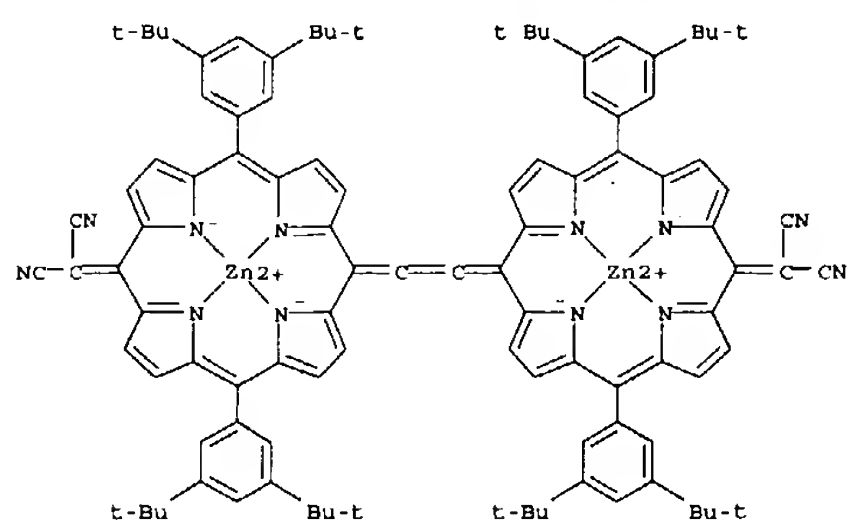
IT 278807-38-8P  
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation and crystal structure of)

RN 278807-38-8 CAPLUS  
CN Zinc, [μ-[[2,2'-(1,2-ethenediylidenebis[10,20-bis(3,5-bis(1,1-dimethylethyl)phenyl)-21H,23H-porphine-15,5-diylidene-«N21,«N22,«N23,«N24»bis[propanedinitrilato]](4-))]di-, compd. with pyridine (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 278807-33-3  
CMP C104 H100 N12 Zn2  
CCI CCS

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

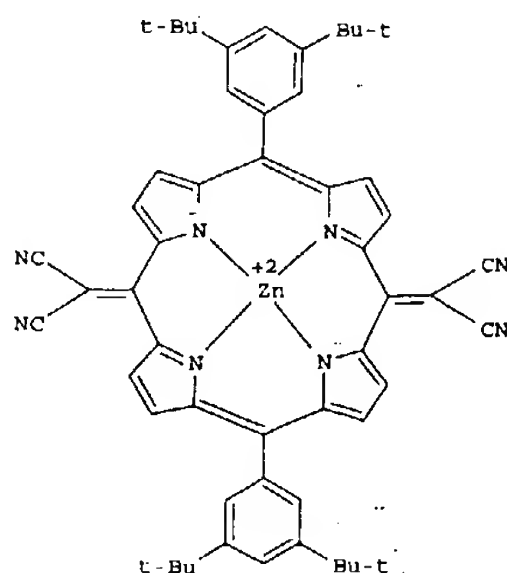


CM 2

CRN 110-86-1  
CMF C5 H5 N

IT 278807-33-3P  
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(preparation, mol. structure and NMR of)  
RN 278807-33-3 CAPLUS  
CN Zinc,  $[\mu-[[[2,2'-(1,2-ethenediylidenebis[10,20-bis[3,5-bis(1,1-dimethylethyl)phenyl]-21H,23H-porphine-15,5-diylidene-\kappa N21,\kappa N22,\kappa N23,\kappa N24]]bis[propanedinitrilo]](4-)]di-(9CI)]$  (CA INDEX NAME)

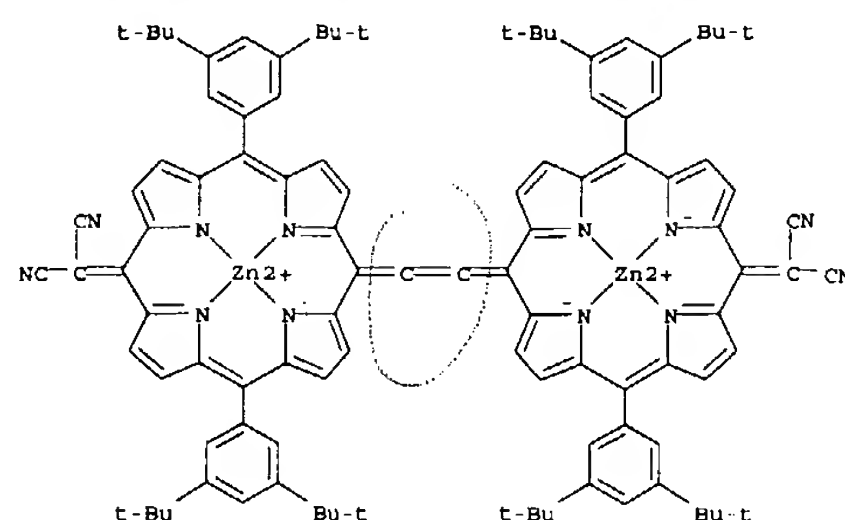
L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1998:630177 CAPLUS  
DOCUMENT NUMBER: 129:330586  
TITLE: Synthesis, Crystal Structure, and Electronic  
Structure  
of a 5,15-Dialkylideneporphyrin: A TCNQ/Porphyrin  
Hybrid  
AUTHOR(S): Blake, Iain M.; Anderson, Harry L.; Beljonne, David;  
Bredas, Jean-Luc; Clegg, William  
CORPORATE SOURCE: Department of Chemistry, University of Oxford Dyson  
Perrins Laboratory, Oxford, OX1 3QY, UK  
SOURCE: Journal of the American Chemical Society (1998),  
120(41), 10764-10765  
CODEN: JACSAT; ISSN: 0002-7863  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 129:330586  
GI



AB The authors describe the synthesis, crystal structure and electronic  
structure of a 5,15-dialkylideneporphyrin (I)- a TCNQ/porphyrin hybrid.  
IT 215313-79-4P  
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(crystal structure, synthesis, crystal structure, and electronic  
structure of a 5,15-dialkylideneporphyrin- a TCNQ/porphyrin hybrid)  
RN 215313-79-4 CAPLUS  
CN Zinc,  
[[2,2'-(10,20-bis[3,5-bis(1,1-dimethylethyl)phenyl]-21H,23H-porphine-  
5,15-diylidene-\kappa N21,\kappa N22,\kappa N23,\kappa N24]]bis[propanedini  
trilato]](2-)]-, (SP-4-1)-, compd. with pyridine (1:1) (9CI) (CA INDEX  
NAME)

Hatte

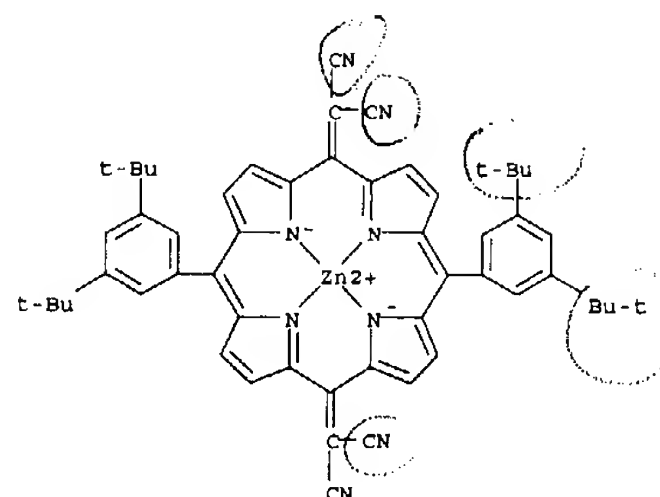
L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR  
THIS  
FORMAT  
RECORD. ALL CITATIONS AVAILABLE IN THE RE

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

CM 1

CRN 215313-77-2  
CMF C54 H50 N8 Zn  
CCI CCS

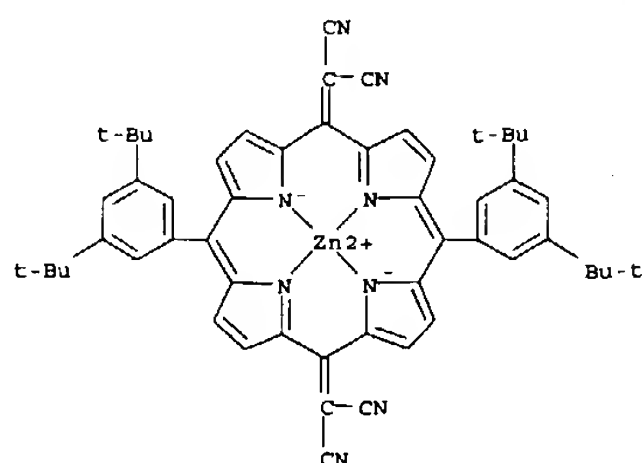
CM 2

CRN 110-86-1  
CMF C5 H5 N

IT 215313-77-2P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(synthesis, crystal structure, and electronic structure of a  
5,15-dialkylideneporphyrin- a TCNQ/porphyrin hybrid)  
RN 215313-77-2 CAPLUS  
CN Zinc,  
[[2,2'-(10,20-bis[3,5-bis(1,1-dimethylethyl)phenyl]-21H,23H-porphine-  
5,15-diylidene-\kappa N21,\kappa N22,\kappa N23,\kappa N24]]bis[propanedini  
trilato]](2-)]-, (SP-4-1)- (9CI) (CA INDEX NAME)

03/31/2004

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

1

NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 09:13:33 ON 31 MAR 2004

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 09:13:41 ON 31 MAR 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 30 MAR 2004 HIGHEST RN 669048-54-8

DICTIONARY FILE UPDATES: 30 MAR 2004 HIGHEST RN 669048-54-8

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

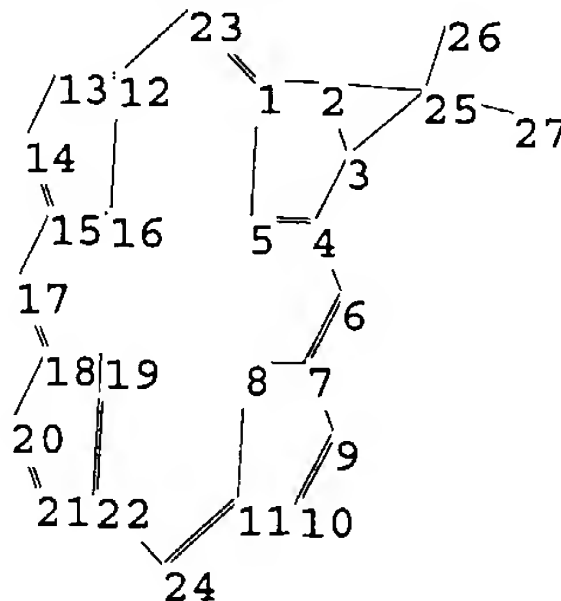
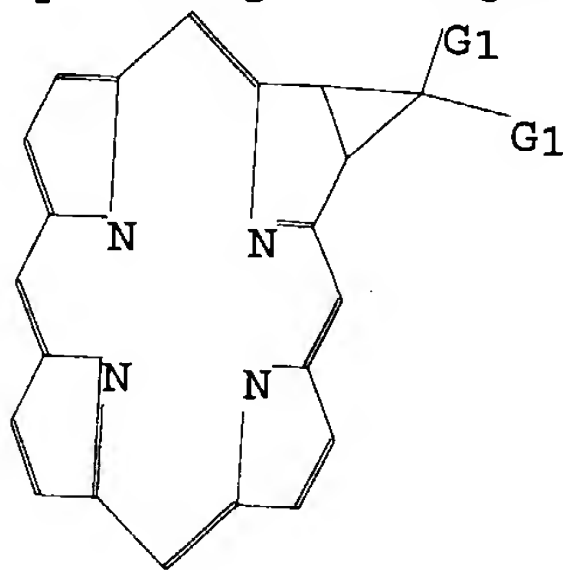
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10622322.str



chain nodes :

26 27

Habte

03/31/2004

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23  
24 25

chain bonds :

25-26 25-27

ring bonds :

1-2 1-5 1-23 2-3 2-25 3-4 3-25 4-5 4-6 6-7 7-8 7-9 8-11 9-10 10-11  
11-24 12-13 12-16 12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22  
20-21 21-22 22-24

exact/norm bonds :

1-2 2-3 2-25 3-4 3-25 7-8 8-11 12-16 15-16 18-20 20-21 21-22 25-26  
25-27

normalized bonds :

1-5 1-23 4-5 4-6 6-7 7-9 9-10 10-11 11-24 12-13 12-23 13-14 14-15  
15-17 17-18 18-19 19-22 22-24

isolated ring systems :

containing 1 :

G1:CH2,CN

Match level :

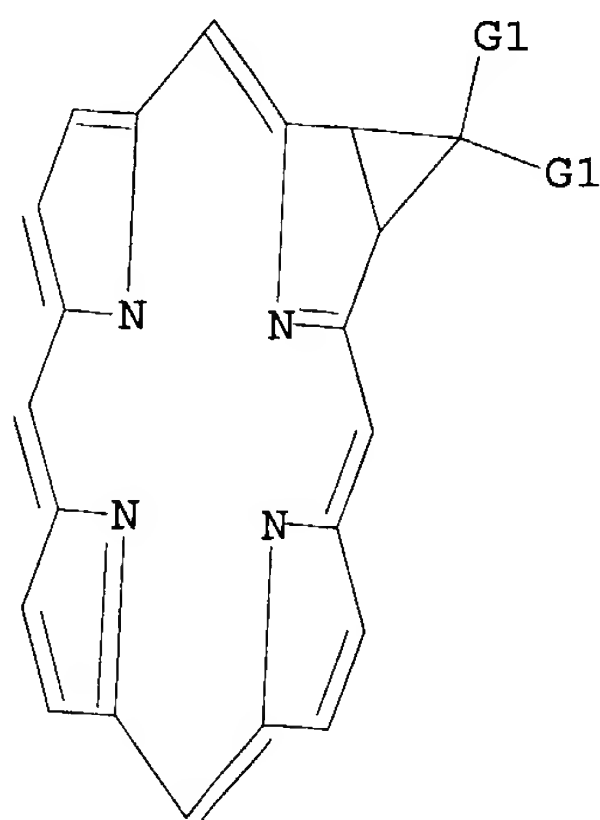
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom  
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:CLASS 27:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 CH2,CN

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 09:14:04 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 4 TO ITERATE

100.0% PROCESSED 4 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 4 TO 200  
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full  
FULL SEARCH INITIATED 09:14:10 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 123 TO ITERATE

100.0% PROCESSED 123 ITERATIONS  
SEARCH TIME: 00.00.01

1 ANSWERS

L3 1 SEA SSS FUL L1

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	155.42	155.63

FILE 'CAPLUS' ENTERED AT 09:14:16 ON 31 MAR 2004  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 31 Mar 2004 VOL 140 ISS 14  
FILE LAST UPDATED: 30 Mar 2004 (20040330/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3  
L4 1 L3  
=> d ibib abs hitstr

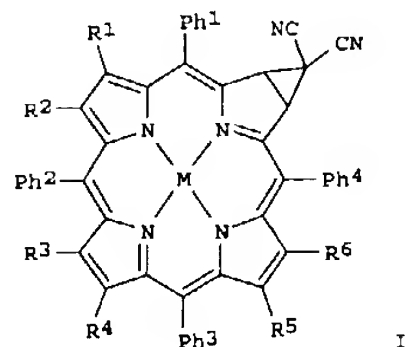


L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2000:742098 CAPLUS  
DOCUMENT NUMBER: 133:296323  
TITLE: Process for modifying polypyrrolic macrocycles via  
1,3-dipolar cycloadditions  
INVENTOR(S): MacAlpine, Jill; Dolphin, David; Sternberg, Ethan D.  
PATENT ASSIGNEE(S): THE University of British Columbia(UBC), Can.  
SOURCE: PCT Int. Appl., 41 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000061585	A2	20001019	WO 2000-IB615	20000414
WO 2000061585	A3	20010201		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

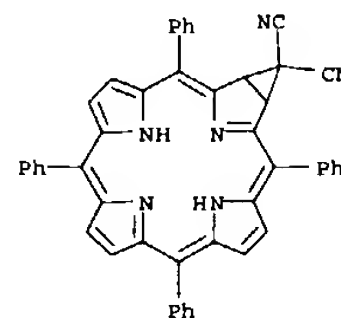
US 6620929	B1	20030916	US 2000-551160	20000414
US 2004019201	A1	20040129	US 2003-622322	20030717

PRIORITY APPLN. INFO.:  
US 1999-129324P P 19990414  
US 2000-551160 A1 20000414  
OTHER SOURCE(S): CASREACT 133:296323; MARPAT 133:296323  
GI

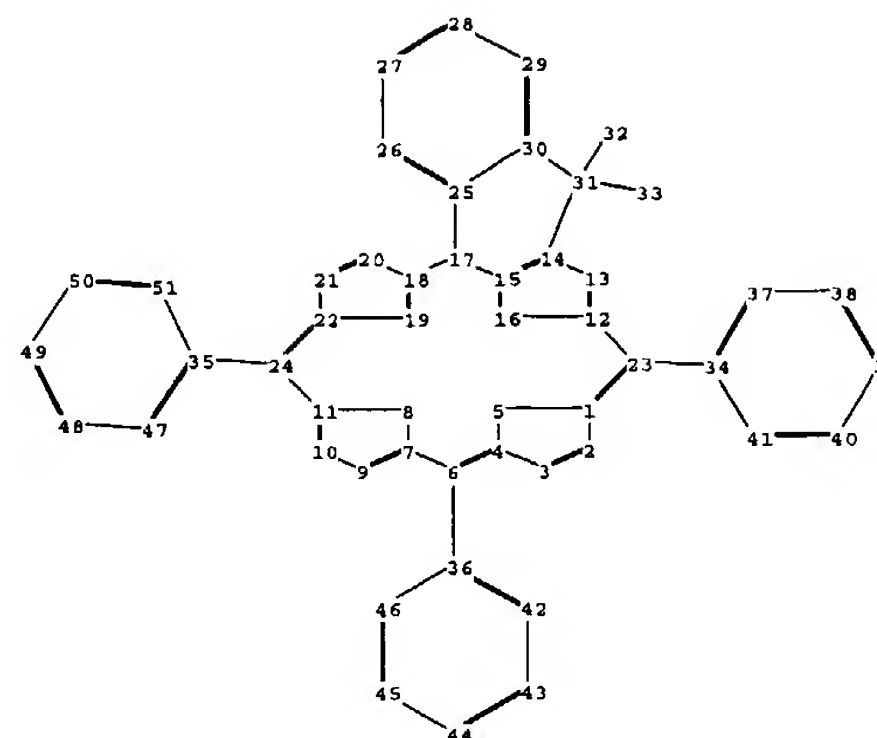
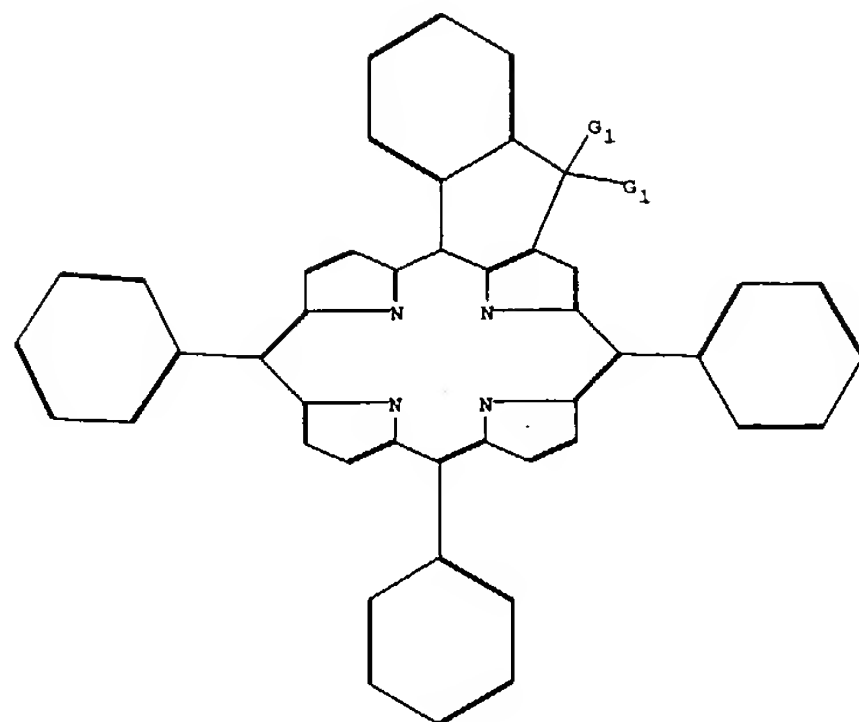


AB Methods of modifying polypyrrolic macrocycles by use of a 1,3-dipolar cycloaddn. to produce compds. for further derivatization to produce photosensitizing agents (I) [M = 2H, Ni(II), Cu(II), Zn, Sn, Ge, Si, Ga,

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN (continued)  
Al, Mn(III), Gd(III), In, Tc; R1-R6 = independently H, alkyl, alkylcarboxylic acid or ester, =O, OH, NO2, NH2; taken together with another ring, ring substituent or meso substituent = fused 5- or 6-membered ring; Ph1-Ph4 independently = H, (un)substituted alkyl, (un)substituted aryl, (un)substituted cycloalkyl, may be same or different of interest is described.  
IT 301300-66-3P  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(process for modifying polypyrrolic macrocycles via 1,3-dipolar cycloaddns.)  
RN 301300-66-3 CAPLUS  
CN 1H,20H,22H-Cyclopropa[b]porphine-1,1-dicarbonitrile, 20,22-didehydro-1a,19a,21,23-tetrahydro-3,8,13,18-tetraphenyl- (9CI) (CA INDEX NAME)



(3)



chain nodes :

32 33

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25  
 26 27 28 29 30 31 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50  
 51

chain bonds :

6-36 23-34 24-35 31-32 31-33

ring bonds :

1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-8 7-9 8-11 9-10 10-11 11-24 12-13 12-16  
 12-23 13-14 14-15 14-31 15-16 15-17 17-18 17-25 18-19 18-20 19-22 20-21 21-22  
 22-24 25-26 25-30 26-27 27-28 28-29 29-30 30-31 34-37 34-41 35-47 35-51 36-42  
 36-46 37-38 38-39 39-40 40-41 42-43 43-44 44-45 45-46 47-48 48-49 49-50 50-51

exact/norm bonds :

1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-8 7-9 8-11 9-10 10-11 11-24 12-13 12-16  
 12-23 13-14 14-15 14-31 15-16 15-17 17-18 17-25 18-19 18-20 19-22 20-21 21-22  
 22-24 30-31 31-32 31-33

exact bonds :

6-36 23-34 24-35

normalized bonds :

25-26 25-30 26-27 27-28 28-29 29-30 34-37 34-41 35-47 35-51 36-42 36-46 37-38  
 38-39 39-40 40-41 42-43 43-44 44-45 45-46 47-48 48-49 49-50 50-51

G1:CH2,CN,COOH

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom  
 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom  
 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom  
 32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom 41:Atom  
 42:Atom 43:Atom 44:Atom 45:Atom 46:Atom 47:Atom 48:Atom 49:Atom 50:Atom 51:Atom



L1        STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1                STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 10:39:45 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 515 TO ITERATE

100.0% PROCESSED        515 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS:    ONLINE    \*\*COMPLETE\*\*  
                              BATCH    \*\*COMPLETE\*\*

PROJECTED ITERATIONS:        8939 TO        11661

PROJECTED ANSWERS:            0 TO            0

L2                0 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 10:39:52 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 10146 TO ITERATE

100.0% PROCESSED        10146 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

L3                0 SEA SSS FUL L1

=> log y

COST IN U.S. DOLLARS

SINCE FILE  
ENTRY

TOTAL  
SESSION

FULL ESTIMATED COST

155.42

155.63

STN INTERNATIONAL LOGOFF AT 10:39:56 ON 31 MAR 2004

NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 10:38:55 ON 31 MAR 2004

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 10:39:09 ON 31 MAR 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 30 MAR 2004 HIGHEST RN 669048-54-8

DICTIONARY FILE UPDATES: 30 MAR 2004 HIGHEST RN 669048-54-8

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10622322ab.str

L Number	Hits	Search Text	DB	Time stamp
1	648	540/145	USPAT; US-PGPUB	2004/03/31 14:13
3	276645	(carbonyl adj ylide)or synthesis	USPAT; US-PGPUB	2004/03/31 14:15
4	5021	photosensitizer	USPAT; US-PGPUB	2004/03/31 14:15
6	3449	tetraphenylporphyrin or diphenylporphyrin or TPP or DPP	USPAT	2004/03/31 14:16
7	31	540/145 and ((carbonyl adj ylide)or synthesis ) and photosensitizer and (tetraphenylporphyrin or diphenylporphyrin or TPP or DPP)	USPAT	2004/03/31 14:17